

Form PTO-1449 (modified)

Atty. Docket No.  
12740.0249.NPUS01Serial No.  
09/781,697

U.S. Patent and Trademark Office of Patents and Publications for Applicant's

Applicant  
Hagan P. Bayley, et al.

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:  
February 12, 2001Group:  
1641U.S. Patent Documents  
See Page 1Foreign Patent Documents  
See Page 1Other Art  
See Page 1

## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	5,234,566	08/10/93	Osman et al.	204	403	08/17/89
	A2	5,443,955	08/22/95	Cornell et al.	435	7.21	01/29/90
	A3	5,795,782	08/18/98	Church et al.	436	2	03/17/95
mc	A4	5,368,712 A	11/29/94	Tomich John et al.	204	403	08/31/90

Cited in  
PTO-892  
dated 5/2/02  
and/or 7/2/03

## Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
mc	B1	W0 99 05167 A	02/04/99	WIPO			
mc	B2	W0 96 20688 A	07/11/96	WIPO			
mc	B3	W0 97 20203 A	06/05/97	WIPO			NO
	B4						
	B5						

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
mc	C1	Thomas Ferenci and King-Sang Lee; Department of Microbiology, University of Sydney; "Channel Architecture in Maltoporin: Dominance Studies Iamb Mutations Influencing Maltodextrin Binding Provide Evidence for Independent Selectivity Filters in Each Subunit"; June 13, 1988; 7 pages.
mc	C2	Charles A. Roessner and Garret M. Ihler; Department of Medical Biochemistry and Genetics, Texas A&M College of Medicine; "Formation of Transmembrane Channels in Liposomes during injection of DNA"; June 3, 1985; ppgs. 386-390.
	C3	Orit Braha, Barbara Walker, Stephen Cheley, John Kasianowicz, Langzhou Song, J. Eric Gouaux and Hagan Bayley; "Designed protein pores as components for biosensors"; April 25, 1997; ppgs. 497-505. Cited in PTO-892 dated 5/2/02 and 7/2/03

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## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
MC	C4	Cornell E.A.: "The gramicidin-based biosensor: a functional nano-machine" NOVARTIS FOUNDATION SYMPOSIUM, vol. 225, 1999, pages 231-254, XP001052820 Chichester.
	C5	Bayley: "Designed membrane channels and pores" CURRENT OPINION IN BIOTECHNOLOGY, vol. 10, 1999, pages 94-103, XP001058234.
	C6	Boehmer, Volker: "Calixarenes macrocycles with (almost) unlimited possibilities" ANGEW, CHEM., INT. ED. ENGL. (1995). 34(7), 713-45, XP002188229
	C7	Movileanu L. Et al.; "Detecting protein analytes that modulate transmembrane movement of a polymer chain within a single protein pore." NATURE BIOTECHNOLOGY, (2000 OCT) 18 (10) 1091-5.; XP002188230
	C8	Van Der Goot E.A.: "Sensing proteins outside of the box" NATURE BIOTECHNOLOGY, vol. 18, 18 October 2000 (2000-10-18), page 1037 XP002188231
✓	C9	Howorka: "A protein pore with a single polymer chain tethered within the lumen" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol. 122, no. 11, 22 March 2000 (2000-03-22), pages 2411-2416, XP002188232 DC US
MC	C10	Search Report for application PCT/US01/04482, European Patent Office, Feb. 2, 2002, PCT

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